

WHAT IS CLAIMED IS:

1. A printing apparatus which creates print data from received job data in accordance with an indication of a command associated with the job data and executes printing,
5 the printing apparatus comprising:

a receiving section for receiving job data;

an execution time measuring section for measuring execution time of each command associated with the received job data;

10 an execution number counting section for counting execution number of times of each command associated with the received job data;

a determination section for determining one or more command(s) to be subjected to replacement processing on the basis of the execution time and execution number of times of each command acquired by said execution time measuring section and said execution number counting section; and
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a replacement section for executing replacement processing for replacing the command(s) determined by the determination section with other command which can be executed in shorter time.
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2. The printing apparatus according to claim 1, further comprising:

a selecting section for selecting either one of a first mode which gives a priority on processing speed and a
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second mode which gives a priority on image quality in accordance with an indication by a user,

wherein said determination section does not determine a command to be subjected to the replacement processing in the case where the first mode is selected.

3. The printing apparatus according to claim 1, further comprising:

a data file storing a plurality of other commands to be used in the replacement processing by said replacement section.

4. A printing apparatus which creates print data from received job data in accordance with an indication of a command associated with the job data and executes printing, the printing apparatus comprising:

a receiving section for receiving job data;

an execution time measuring section for measuring execution time of each command associated with the received job data;

an execution number counting section for counting execution number of times of each command associated with the received job data;

a first processing section;

a second processing section;

a determination section for determining one or more command(s) to be subjected to parallel processing on the

basis of the execution time and execution number of times of each command acquired by said execution time measuring section and said execution number counting section; and

5 a controlling section for controlling said first and second processing sections to execute parallel processing of the job data with which the command determined by said determination section is associated.

5. The printing apparatus according to claim 4, wherein

10 said first processing section usually performs execution of a command associated with job data and conversion of the job data into print data;

15 said second processing section usually performs processing different from that performed by said first processing section; and

20 said controlling section performs controlling so that with respect to the job data with which the command determined by said determination section is associated, said first processing section executes the command and said second processing section converts the job data into print data.

6. The printing apparatus according to claim 4, further comprising:

25 a selecting portion for selecting either one of a first mode which gives a priority on processing speed or a

second mode which gives a priority on image quality in accordance with an indication by an user,

wherein said determination section determines the command to be subjected to the parallel processing in the case where the first mode is selected, while it does not determine it so in the case where the second mode is selected.

7. A printing method for creating print data from received job data in accordance with an indication of a command associated with the job data, the printing method comprising the steps of:

receiving job data;

measuring execution time of each command associated with the received job data;

counting execution number of times of each command associated with the received job data;

determining one or more command(s) to be subjected to replacement processing on the basis of the acquired execution time and execution number of times of each command; and

executing replacement processing for replacing the determined command(s) with other command which can be executed in shorter time.

8. The printing method according to claim 7, further comprising the step of:

selecting either one of a first mode which gives a priority on processing speed and a second mode which gives a priority on image quality in accordance with an indication by a user,

5 wherein in said determining step, a command is determined to be subjected to the replacement processing in the case where the first mode is selected, while the command is not determined so in the case where the second mode is selected.

10 9. A printing method for creating print data from received job data in accordance with an indication of a command associated with the job data, the printing method comprising the steps of:

receiving job data;

15 measuring execution time of each command associated with the received job data;

counting execution number of times of each command associated with the received job data;

20 determining one or more command(s) to be subjected to parallel processing on the basis of the acquired execution time and execution number of times of each command; and

controlling first and second processing sections to execute parallel processing of the job data with which the determined command is associated.

25 10. The printing method according to claim 9, wherein

said first processing section usually performs execution of a command associated with job data and conversion of the job data into print data;

5 said second processing section usually performs processing different from that performed by said first processing section; and

10 in said controlling step, control is performed so that with respect to the job data with which the command determined in said determining step is associated, said first processing section executes the command and said second processing section converts the job data into print data.

11. The printing method according to claim 9, further comprising the step of:

15 selecting either one of a first mode which gives a priority on processing speed or a second mode which gives a priority on image quality in accordance with an indication by an user,

20 wherein in said determining step, a command is determined to be subjected to the parallel processing in the case where the first mode is selected, while the command is not determined so in the case where the second mode is selected.

25 12. A program product executable by computer for processing job data, the program product making computer

execute processing comprising the steps of:

receiving job data;

measuring execution time of each command associated with the received job data;

5 counting execution number of times of each command associated with the received job data;

determining one or more command(s) to be subjected to replacement processing on the basis of the acquired execution time and execution number of times of each command; and

executing replacement processing for replacing the determined command(s) with other command which can be executed in shorter time.

13. The program product according to claim 12, wherein said processing further comprises the step of:

selecting either one of a first mode which gives a priority on processing speed and a second mode which gives a priority on image quality in accordance with an indication by a user,

20 wherein in said determining step, a command is determined to be subjected to the replacement processing in the case where the first mode is selected, while the command is not determined so in the case where the second mode is selected.

25 14. A program product executable by computer for

processing job data, the program product making computer
execute processing comprising the steps of:

receiving job data;

measuring execution time of each command associated
5 with the received job data;

counting execution number of times of each command
associated with the received job data;

determining one or more command(s) to be subjected to
parallel processing on the basis of the acquired execution
10 time and execution number of times of each command; and

controlling first and second processing sections to
execute parallel processing of the job data with which the
determined command is associated.

15 15. The program product according to claim 14,
wherein

said first processing section usually performs
execution of a command associated with job data and
conversion of the job data into print data;

20 said second processing section usually performs
processing different from that performed by said first
processing section; and

in said controlling step, control is performed so that
with respect to the job data with which the command
determined in said determining step is associated, said
25 first processing section executes the command and said

second processing section converts the job data into print data.

16. The program product according to claim 14, wherein said processing further comprises the step of:

5 selecting either one of a first mode which gives a priority on processing speed or a second mode which gives a priority on image quality in accordance with an indication by an user,

10 wherein in said determining step, a command is determined to be subjected to the parallel processing in the case where the first mode is selected, while the command is not determined so in the case where the second mode is selected.